

Sheet 1 of 1		INFORMATION DISCLOSURE STATEMENT						
FORM PTO 1449 ( <i>modified</i> ) <b>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b> LIST OF REFERENCES CITED BY APPLICANT(S) <i>(Use several sheets if necessary)</i> Date Submitted to PTO: December 14, 2005			ATTY DOCKET NO. 2000_1328		SERIAL NO. 09/672,946			
			APPLICANT Mitsuaki OSHIMA et al.					
			FILING DATE September 29, 2000		GROUP <del>2634</del> 2611			
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DH	AA	4,597,090	6-24-86	Forney, Jr.	—	—	—	
	AB	4,077,021	2-28-78	Csajka et al.	—	—	—	
	AC	2005/0084760	4-21-05	Wang et al.	—	—	—	
	AD	2005/0058633	3-17-05	Epstein et al.	—	—	—	
	AE	2005/0022022	—	—	—	—	—	
	AF	4,918,437	4-17-90	Jasinski et al.	—	—	—	
	AG	5,023,889	6-11-91	Divsalar et al.	—	—	—	
	AH	5,063,452	11-5-91	Higurashi	—	—	—	
	AI	5,124,852	6-23-92	Suwa et al.	—	—	—	
	AJ	5,136,380	8-4-92	Cho	—	—	—	
	AK	5,146,335	9-8-92	Kim et al.	—	—	—	
	AL	5,148,422	9-15-92	Sako et al.	—	—	—	
DH	AM	5,218,436	6-8-93	Sugiyama et al.	—	—	—	
FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
DH	AN	2627574	7-21-04	CN	—	—	—	
DH	AO	1529838	5-11-05	EP	—	—	abstract	
DH	AP	1499725	5-26-04	CN	—	—	only abstract	
DH	AQ	2004-159207	6-3-04	JP	—	—	corresponds to AP	
DH	AR	1528854	5-11-05	EP	—	—	only abstract	
DH	AS	52118	12-16-02	UA	—	—	only abstract	
DH	AT	1569334	1-26-05	CN	—	—	x	
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)								
	AU							
EXAMINER	<i>Dan L. Loh</i>			DATE CONSIDERED		01/19/06		

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Sheet 1 of 1

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ATTY DOCKET NO.  
2000\_1328SERIAL NO.  
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PATENT AND TRADEMARK OFFICELIST OF REFERENCES CITED BY APPLICANT(S)  
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Mitsuaki OSHIMA et al.FILING DATE  
September 29, 2000GROUP  
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/DH/	AA	4,003,002	1-11-77	Snijders et al.			
/DH/	AB	4,053,713	10-11-77	Nitadori			
	AC						
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ						
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## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/DH/	AA	4,267,592	5-12-81	Craiglow			
/DH/	AB	4,601,045	7-15-86	Lubarsky			
/DH/	AC	4,912,706	3-27-90	Eisenberg et al.			
/DH/	AD	4,914,655	4-3-90	Johannes et al.			
/DH/	AE	5,018,198	5-21-91	Takahashi			
	AF						
	AG						
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ						
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## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

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GROUP

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*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	5,311,550	5-10-94	Fouche et al.			
	AB	4,630,287	12-16-86	Armstrong			
	AC	4,271,527	6-2-81	Armstrong			
	AD	5,050,188	9-17-91	Dirr			
	AE	5,398,073	3-14-95	Wei			
	AF	5,452,015	9-19-95	Hulyalkar			
	AG	5,565,932	10-15-96	Gitta et al.			
	AH	5,481,412	1-2-96	Bannai et al.			
	AI	3,909,721	9-30-75	Bussgang et al.			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	0365431	4-25-90	EP			X
	AK	0485105	5-13-92	EP			X
	AL	92/14343	8-20-92	WO			X
	AM	89/08366	9-8-89	WO			X
	AN	0031193	7-1-81	EP			X

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Shinji Matsumoto et al., "200 Mb/s 16 QAM Digital Radio-Relay System Operating in 4 and 5 GHz Bands", Japan Telecommunications Review, January 1982, vol. 24, no. 1, pages 65-73.
	AP	M. Pecot et al., "Compatible Coding of Television Images, Part 2. Compatible System", Signal Processing Image Communication, October 2, 1990, no. 3, pages 259-268.
AS	AQ	Mitsuaki Oshima, "Constellation-Code Division Multiplex for Digital HDTV", IEEE, 1992, pages 1086-1092.

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DATE CONSIDERED

8.20.02

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	4,227,152	10-7-80	Godard et al.	7	7	
	AB	4,525,846	6-25-85	Bremer et al.			
	AC	4,751,478	6-14-88	Yoshida			
	AD	4,891,806	1-2-90	Farias et al.			
	AE	4,903,125	2-20-90	Parker			
	AF	4,937,844	6-26-90	Kao			
	AG	5,164,963	11-17-92	Lawrence et al.			
	AH	5,555,275	9-1996	Oshima	7	7	
	AI						

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	0311188	4-12-89	EP	7	7	X
	AK	0329158	8-23-89	EP			X
	AL	64-5135	1-10-89	JP			X
	AM	63-28145	2-5-88	JP			X
	AN	62-133842	6-17-87	JP	7	7	X

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	AO	Tricia Hill et al., "A Performance Study of NLA 64-State QAM", IEEE Transactions on Communications, vol. COM-31, June 1983, no. 6, pages 821-826.
	AP	Hideki Ishio et al., "A Proposal of a Carrier Digital Transmission System Using Multi-Level APSK", pages 1-20. no date
AS	AQ	Shanmugam, "Digital and Analog Communication Systems" 1979, p. 272.

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DATE CONSIDERED

8-21-02

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FORM PTD 1449 (modified)

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GROUP

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AS	AA	5,105,442	4-14-92	Wei	T		
	AB	4,048,572	9-13-77	Dogliotti et al.	T		
	AC	5,282,019	1-25-94	Basile et al.			
	AD	5,311,547	5-10-94	Wei			
	AE	5,267,021	11-30-93	Ramchandran et al.			
	AF	5,038,219	8-6-91	Yamashita et al.			
	AG	5,087,975	2-11-92	Citta et al.			
	AH	5,086,340	2-4-92	Citta et al.	T		
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AJ	53-137657	12-1-78	JP	T		X
	AK	0282298	9-14-88	Europe			X
	AL	0392538	10-17-90	Europe			X
	AM	0490552	6-17-92	Europe	T		X
	AN	0506400A2	9-30-92	Europe	T		

## OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)

	AO	Khaled Fazel et al., Combined multilevel coding and multiresolution modulation, February 8, 1993, Pages 1081-1085
	AP	P. Hoeher et al., Performance of an RCPC-Coded OFDM-based Digital Audio Broadcasting (DAB) System, IEEE Global Telecommunications Conference "Globecom '91", December 2-5, 1991, Vol. 1 of 3, Pages 2.1 - 2.1.7
AS	AQ	K. M. Uz et al., Combined multiresolution source coding and modulation for digital broadcast of HDTV*, 1992, Pages 283-292

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08.24.02

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## U.S. PATENT DOCUMENTS

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AS	AA	5,142,353	8-25-92	Kageyama et al.	T	T	
	AB	5,197,061	3-23-93	Halbert-Lassalle et al.	T	T	
↓	AC	5,291,289	3-1-94	Hulyalkar et al.	T	T	
AS	AD	5,166,924	11-24-92	Moose	T	T	
	AE						
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AS	AJ	0448492A1	9-25-91	Europe	T	T	
	AK	0485108A2	5-13-92	Europe	T	T	
	AL	0525641A2	2-3-93	Europe	T	T	
	AM	0540231A2	5-5-93	Europe	T	T	
	AN	0531046A2	3-10-93	Europe	T	T	

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	AO	K. M. Uz et al., Multiresolution Source and Channel Coding for Digital Broadcast of HDTV, 1992, Pages 61-69.
	AP	Nambi Seshadri et al., Multi-Level Block Coded Modulations with Unequal Error Protection for the Rayleigh Fading Channel, Vol. 4, No. 3, May-June 1993, Pages 325-334.
↓ AS	AQ	William F. Schreiber, Spread-Spectrum Television Broadcasting, SMPTE Journal, August 1992, Pages 538-549.

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08.21.02

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## U.S. PATENT DOCUMENTS

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	AA						
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	AE						
	AF						
	AG						
	AH						
	AI						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AS	AJ	85/04541	10-10-85	WO	—	—	
	AK						
	AL						
	AM						
	AN						

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AS	AO	Martin Vetterli et al., Multiresolution Coding Techniques for Digital Television: A Review, Multidimensional Systems and Signal Processing, Volume 3, May 1992, Pages 161-187.
↓	AP	Ezio Biglieri et al., Introduction to Trellis-Coded Modulation with Applications, April 6, 1992, Pages 173-207
↓ AS	AQ	English Language Abstract of European Patent No. 93 30 7575

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS	AA	4,636,876	1-13-87	Schwartz	7	7	
	AB	4,855,692	8-8-89	Kennard et al.			
	AC	4,873,701	10-10-89	Tretter			
	AD	4,958,360	9-18-90	Sari			
↓	AE	5,115,453	5-19-92	Calderbank et al.			
AS	AF	5,168,509	12-1-92	Nakamura et al.	7	7	
	AG						
	AH						
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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
AS	AJ	0122805	10-24-84	EP	7	7	X
AS	AK	63-180280	7-25-88	JP	7	7	abstract
	AL						
	AM						
	AN						

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AS	AO	Kazuhiko Nitadori, Synthesis of Multichannel Orthogonal VSB Signals by Quadrature Method, 1976 International Conference on Communications, June 14-16, 1976, Volume 1, Pages 3-25 - 3-29.
	AP	Thomas M. Cover, Broadcast Channels, IEEE Transactions on Information Theory, January 1972, Pages 2-1.
AS	AQ	"Optimum Weighted PCM for Speech Signals", Sundberg, IEEE Transactions on Communications, Volume COM-28, No. 6, June 1978, Pages 872-881.

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8.21.02